

GenCore version 5.1.6
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OM protein - protein search, using SW model

Run on: June 12, 2003, 15:29:14 ; Search time 16 Seconds

(without alignments)
114,160 Million cell updates/sec

Title: US-09-869-540a-2

Sequence: 1 DFDMLRCMLGRVYRRCMV 19

Scoring table: BLOSUM62

Gapop 10.0, Gapext 0.5

Searched: 283224 seqs, 96134422 residues

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database :
1: PIR_73: *
2: PIR1: *
3: PIR2: *
4: PIR3: *
5: PIR4: *

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match Length	ID	Description
1	113	100.0	56 2 S68499	melanin-concentrat
2	113	100.0	165 2 A36237	melanin-concentrat
3	113	100.0	165 2 T52634	melanin-concentrat
4	87	77.0	132 1 MT0N1K	melanin-concentrat
5	87	77.0	132 1 MT0N2K	melanin-concentrat
6	87	77.0	132 2 B32910	melanin-concentrat
7	87	77.0	132 2 S34653	melanin-concentrat
8	87	77.0	132 2 S34654	melanin-concentrat
9	87	77.0	132 2 A32910	melanin-concentrat
10	48	42.5	250 2 G70968	probable methyltra
11	46	40.7	603 2 H64442	hypothetical prote
12	44.5	39.4	186 2 D91252	hypothetical prote
13	44.4	38.9	143 2 T47202	Ig heavy chain var
14	43.5	38.5	416 2 S03416	probable transpos
15	43.5	38.5	426 2 G02277	creatinine transpo
16	43.5	38.5	635 2 S23431	choleline transport
17	43.5	38.5	635 2 A46061	Na(+)-dependent cr
18	43.5	38.5	635 2 JC2386	creatine transport
19	43.5	38.5	635 2 G02095	genome transpos
20	43	38.1	3206 1 GNSP5V	nickel metalloprote
21	42.5	37.6	301 2 A39512	myeloperoxidase (E
22	42	37.2	232 2 D28894	conserved hypothet
23	42	37.2	270 2 G90272	hypothetical prote
24	42	37.2	466 2 B89952	glycoprotein E - 8
25	42	37.2	577 1 VGBEG1	hypothetical prote
26	42	37.2	660 2 T22794	protein T2E6.8 [im
27	42	37.2	708 2 G96518	myeloperoxidase (E
28	42	37.2	745 1 OPHDM	myeloperoxidase (E
29	42	37.2	825 2 C28894	myeloperoxidase (E

30	42	37.2	830 2 B28894	myeloperoxidase (E
31	42	37.2	1477 2 AG3009	polyketide synthet
32	42	37.2	1489 2 G98274	hypothetical prote
33	41.5	36.7	709 2 E73601	probable transpos
34	41	36.3	343 2 T33241	hypothetical prote
35	41	36.3	368 2 AB2215	hypothetical prote
36	41	36.3	373 2 JC7289	G-protein coupled
37	41	36.3	500 2 T03387	polymaline oxidase
38	41	36.3	762 2 I59329	protein kinase (EC
39	41	36.3	762 2 S68217	protein kinase (EC
40	41	36.3	807 2 T32463	hypothetical prote
41	40	35.4	61 2 C33429	ATPase inhibitor 3
42	40	35.4	173 1 CYCAG2	gamma-crystallin m
43	40	35.4	173 2 H82671	hypothetical prote
44	40	35.4	175 2 P00616	transport protein
45	40	35.4	301 2 E95405	probable GalT tran

ALIGNMENTS

RESULT 1

S68499
melanin-concentrating hormone - mouse (fragment)
C:Species: Mus musculus (house mouse)
C:Date: 29-Jan-1998 #sequence_revision 06-Feb-1998 #text_change 07-May-1999
C:Accession: S68499
R:Ou, D.; Ludwig, D.S.; Gammeltoft, S.; Piper, M.; Pellemounter, M.A.; Cullen, M.J.;
Nature 380, 243-246, 1996
A:Title: A role for melanin-concentrating hormone in the central regulation of feeding
A:Reference number: S68499; MUID:96207751; PMID:8637571
A:Accession: S68499
A:Residues: 1-56 <QND>
A:Molecule type: mRNA
A:Experimental source: tissue hypothalamus
C:Superfamily: melanin-concentrating hormone
C:Keywords: hormone; hypothalamus; neuropeptide
F:1-19/Product: neuropeptide N-GE (fragment) #status predicted <NGE>
F:22-35/Product: neuropeptide N-ET #status predicted <NET>
F:38-56/Product: melanin-concentrating hormone #status predicted <MAT>

Query Match 100.0%; Score 113; DB 2; Length 56;
Best Local Similarity 100.0%; Pred. No. 2e-11;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DFDMLRCMLGRVYRRCMV 19
DB 38 DFDMLRCMLGRVYRRCMV 56

RESULT 2

A36237
melanin-concentrating hormone precursor - rat
C:Species: Rattus norvegicus (Norway rat)
C:Date: 12-Apr-1991 #sequence_revision 12-Apr-1991 #text_change 16-Jul-1999
C:Accession: A36237; A37407; A37406
R:Thompson, R.C.; Watson, S.J.
DNA Cell Biol 9, 637-645, 1990
A:Title: Nucleotide sequence and tissue-specific expression of the rat melanin concn
A:Reference number: A36237; MUID:91083836; PMID:2261081
A:Accession: A36237
A:Molecule type: DNA
A:Status: preliminary; not compared with conceptual translation
A:Residues: 1-165 <THO>
A:Cross-references: GB:M62641; NID:9205329; PIDN:AAA41581.1; PID:9205330
R:Nahon, J.L.; Presse, F.; Bittencourt, J.C.; Sawchenko, P.E.; Vale, W.
Endocrinology 125, 2056-2065, 1989
A:Title: The rat melanin-concentrating hormone messenger ribonucleic acid encodes mul
A:Reference number: A37407; MUID:90005146; PMID:24777226
A:Accession: A37407
A:Status: preliminary
A:Molecule type: mRNA
A:Residues: 1-165 <NAH>

A:Cross-references: GB:M29712; NID:9205327; PIDN:AAA41580.1; PID:9205328
 R:Vaughan, J.M.; Fischer, W.H.; Hoeger, C.; Rivier, J.; Vale, W.
 Endocrinology 135, 1660-1665, 1998
 A:Title: Characterization of melanin-concentrating hormone from rat hypothalamus.
 A:Reference number: A37406; MUID:89338286; PMID:2755038
 A:Accession: A37406
 A:Status: preliminary
 A:Molecule type: protein
 A:Residues: 147-165 <NAV>
 C:Superfamily: melanin-concentrating hormone

Query Match 100.0%; Score 113; DB 2; Length 165;
 Best Local Similarity 100.0%; Pred. No. 5.5e-11;
 Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DFDMLRCMLGRVYRRCMOV 19
 DB 147 DFDMLRCMLGRVYRRCMOV 165

RESULT 3

152634
 melanin-concentrating hormone precursor - human
 N:Alternate names: prepro-melanin-concentrating hormone
 C:Species: Homo sapiens (man)
 C>Date: 02-Jul-1996 #sequence_revision 02-Jul-1996 #text_change 16-Jul-1999
 C:Accession: I52634; I55414; A34551
 R:Breton, C.; Schorpp, M.; Nahon, J.L.
 Brain Res. Mol. Brain Res. 18, 297-310, 1993
 A:Title: Isolation and characterization of the human melanin-concentrating hormone gene
 A:Reference number: I52634; MUID:93316802; PMID:8326825
 A:Accession: I52634
 A:Status: preliminary; translated from GB/EMBL/DBJ
 A:Molecule type: DNA
 A:Residues: 1-165 <RES>
 A:Cross-references: GB:S63697; NID:9402795; PIDN:AA27493.1; PID:9402796
 A:Accession: I54414

A:Status: preliminary; translated from GB/EMBL/DBJ
 A:Molecule type: DNA
 A:Residues: 88-96, 'S', '98-100, 'V', '102-108, 'E', '110-121, 'D', '123-131, 'T', '133-142, 'V', '144-145
 A:Cross-references: GB:S64288; NID:9402797; PIDN:AA27494.1; PID:9402798
 R:Pressac, F.; Nahon, J.L.; Fischer, W.H.; Vale, W.
 Mol. Endocrinol. 4, 632-637, 1990
 A:Title: Structure of the human melanin-concentrating hormone mRNA.
 A:Reference number: A34551; MUID:91125371; PMID:2149166
 A:Accession: A34551

A:Status: preliminary
 A:Molecule type: mRNA
 A:Residues: 1-41, 'F', '43-103, 'G', '105, 'Q', '107-112, 'D', '114-165 <PRE>
 A:Cross-references: GB:M57703; NID:9187445; PIDN:AAA63214.1; PID:9187446
 C:Genetics:
 A:Gene: GDB:PMCH
 A:Cross-references: GDB:128784; OMIM:176795
 A:Map position: 12q23-12q24
 A:Introns: 83/3; 150/1
 C:Superfamily: melanin-concentrating hormone
 C:Keywords: hormone; hypothalamus
 F:1-21/Domain: signal sequence #status predicted <SIG>

Query Match 100.0%; Score 113; DB 2; Length 165;
 Best Local Similarity 100.0%; Pred. No. 5.5e-11;
 Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DFDMLRCMLGRVYRRCMOV 19
 DB 147 DFDMLRCMLGRVYRRCMOV 165

RESULT 4
 MTON2K
 melanin-concentrating hormone 1 precursor - chum salmon
 N:Alternate names: MCH
 C:Species: Oncorhynchus keta (chum salmon)
 C>Date: 30-Sep-1990 #sequence_revision 30-Sep-1990 #text_change 24-Nov-1999
 C:Accession: J50283; S04087; J50049; B01472; A01472
 R:Takayama, I.; Wada, C.; Kawachi, H.; Ono, M.
 Gene 80, 65-73, 1989
 A:Title: Structures of two genes coding for melanin-concentrating hormone of chum sal
 A:Reference number: A91618; MUID:90006787; PMID:2792771
 A:Accession: J50283
 A:Status: translation not shown
 A:Molecule type: DNA
 A:Residues: 1-132 <TRX>
 A:Cross-references: GB:M27871; NID:9213454; PIDN:AAA49419.1; PID:9213455
 R:Nahon, J.L.; Schoepfer, R.; Vale, W.
 Nucleic Acids Res. 17, 3598, 1989
 A:Title: cDNA sequence of salmon melanin-concentrating hormone exhibits similarities
 A:Reference number: S04087; MUID:89263809; PMID:2471156
 A:Accession: S04087
 A:Status: translation not shown
 A:Molecule type: mRNA
 A:Residues: 1-106, 'SP', '109-132 <NAH>
 A:Cross-references: EMBL:X13685; NID:964142; PIDN:CAA31978.1; PID:964143
 R:Ono, M.; Wada, C.; Okawa, I.; Kawachi, H.
 Gene 71, 433-438, 1988
 A:Title: Structures of two kinds of mRNA encoding the chum salmon melanin-concentrat
 A:Reference number: A91598; MUID:89138019; PMID:2465207

Query Match 100.0%; Score 87; DB 1; Length 132;
 Best Local Similarity 76.5%; Pred. No. 7.5e-07;
 Matches 13; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 3 DMLRCMLGRVYRRCMOV 19
 DB 116 DMLRCMLGRVYRRCMOV 132

RESULT 5
 MTON2K
 melanin-concentrating hormone 2 precursor - chum salmon
 N:Alternate names: MCH2
 C:Species: Oncorhynchus keta (chum salmon)
 C>Date: 30-Sep-1990 #sequence_revision 30-Sep-1990 #text_change 24-Nov-1999
 C:Accession: J50283; S04087; J50049; B01472; A01472
 R:Takayama, I.; Wada, C.; Kawachi, H.; Ono, M.
 Gene 80, 65-73, 1989
 A:Title: Structures of two genes coding for melanin-concentrating hormone of chum sal
 A:Reference number: A91618; MUID:90006787; PMID:2792771
 A:Accession: J50283
 A:Status: translation not shown
 A:Molecule type: DNA
 A:Residues: 1-132 <TRX>
 A:Cross-references: GB:M27871; NID:9213454; PIDN:AAA49419.1; PID:9213455
 R:Nahon, J.L.; Schoepfer, R.; Vale, W.
 Nucleic Acids Res. 17, 3598, 1989
 A:Title: cDNA sequence of salmon melanin-concentrating hormone exhibits similarities
 A:Reference number: S04087; MUID:89263809; PMID:2471156
 A:Accession: S04087
 A:Status: translation not shown
 A:Molecule type: mRNA
 A:Residues: 1-106, 'SP', '109-132 <NAH>
 A:Cross-references: EMBL:X13685; NID:964142; PIDN:CAA31978.1; PID:964143
 R:Ono, M.; Wada, C.; Okawa, I.; Kawachi, H.
 Gene 71, 433-438, 1988
 A:Title: Structures of two kinds of mRNA encoding the chum salmon melanin-concentrat
 A:Reference number: A91598; MUID:89138019; PMID:2465207

Query Match 100.0%; Score 87; DB 1; Length 132;
 Best Local Similarity 76.5%; Pred. No. 7.5e-07;
 Matches 13; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 3 DMLRCMLGRVYRRCMOV 19
 DB 116 DMLRCMLGRVYRRCMOV 132

RESULT 5
 MTON2K
 melanin-concentrating hormone 2 precursor - chum salmon
 N:Alternate names: MCH2
 C:Species: Oncorhynchus keta (chum salmon)
 C>Date: 30-Sep-1990 #sequence_revision 30-Sep-1990 #text_change 24-Nov-1999
 C:Accession: J50283; S04087; J50049; B01472; A01472
 R:Takayama, I.; Wada, C.; Kawachi, H.; Ono, M.
 Gene 80, 65-73, 1989
 A:Title: Structures of two genes coding for melanin-concentrating hormone of chum sal
 A:Reference number: A91618; MUID:90006787; PMID:2792771
 A:Accession: J50283
 A:Status: translation not shown
 A:Molecule type: DNA
 A:Residues: 1-132 <TRX>
 A:Cross-references: GB:M27871; NID:9213454; PIDN:AAA49419.1; PID:9213455
 R:Nahon, J.L.; Schoepfer, R.; Vale, W.
 Nucleic Acids Res. 17, 3598, 1989
 A:Title: cDNA sequence of salmon melanin-concentrating hormone exhibits similarities
 A:Reference number: S04087; MUID:89263809; PMID:2471156
 A:Accession: S04087
 A:Status: translation not shown
 A:Molecule type: mRNA
 A:Residues: 1-106, 'SP', '109-132 <NAH>
 A:Cross-references: EMBL:X13685; NID:964142; PIDN:CAA31978.1; PID:964143
 R:Ono, M.; Wada, C.; Okawa, I.; Kawachi, H.
 Gene 71, 433-438, 1988
 A:Title: Structures of two kinds of mRNA encoding the chum salmon melanin-concentrat
 A:Reference number: A91598; MUID:89138019; PMID:2465207

Query Match 100.0%; Score 87; DB 1; Length 132;
 Best Local Similarity 76.5%; Pred. No. 7.5e-07;
 Matches 13; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

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A:Accession: J50049
A:Molecule type: mRNA
A:Residues: 1-107 / 'P', 109-132 <ONO>
C:Cross-references: GB:M23574; NID:g213458; PIDN:AAA49421.1; PID:g213459
R:Kawabuchi, H.; Kawazoe, I.; Tsubokawa, M.; Kishida, M.; Baker, B.I.
A>Title: Characterization of melanin-concentrating hormone in chum salmon pituitaries.
A:Reference number: A9316; MOID:84014069; PMID:6621686
A:Accession: B01472
A:Molecule type: protein
A:Residues: 116-132 <RAM>
C:Comment: For melanin-concentrating hormone 1, see PIR:MTONIK.
C:Comment: This hormone, isolated from the pituitary gland, has an activity antagonistic
C:Gene(s): MC2
A:Superfamily: melanin-concentrating hormone
C:Keywords: glycoprotein; hormone; hypothalamus; pituitary
F:1-24/Dominant signal sequence [status predicted <SIG>]
F:125-115/Dominant propeptide [status predicted <PRO>]
F:116-132/Product: melanin-concentrating hormone [status experimental <ANT>]
F:107/Binding site: carbohydrate (Asn) (covalent) [status predicted]
F:120-129/Disulfide bonds: [status experimental]

Query Match          77.0%   Score 87; DB 1; Length 132;
Best Local Similarity 76.5%   Pred. No. 7.5e+07;
Matches 13; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

OY      3 DMLRCMLGRVTRPCMOY 19
I : ::::|::::|::|::|
DB      116 DTMRCMVGRRVTRPCMEY 132

RESULT 6
B32910
melanin-concentrating hormone 2 precursor - chinook salmon
C:Species: Oncorhynchus tshawytscha (chinook salmon)
C>Date: 08-Dec-1989 #sequence_revision 08-Dec-1989 #text_change 16-Jul-1999
C:Accession: B32910
R:Minich, C.D.; Qiu, H.; Akil, H.; Watson, S.J.; Dixon, J.E.
Proc. Natl. Acad. Sci. U.S.A. 86, 4292-4296, 1989
A>Title: Two precursors of melanin-concentrating hormone: DNA sequence analysis and in vitro bioassay.
A:Reference number: A3910; MOID:89264605; PMID:2471200
A:Accession: B32910
A>Status: Preliminary
A:Molecule type: mRNA
A:Residues: 1-132 <MN>
C:Cross-references: GB:M25755; GB:J04562; NID:g213462; PIDN:AAA49423.1; PID:g213463
C:Superfamily: melanin-concentrating hormone

Query Match          77.0%   Score 87; DB 2; Length 132;
Best Local Similarity 76.5%   Pred. No. 7.5e+07;
Matches 13; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

OY      3 DMLRCMLGRVTRPCMOY 19
I : ::::|::::|::|::|
DB      116 DTMRCMVGRRVTRPCMEY 132

RESULT 7
S34653
melanin-concentrating hormone 1 - rainbow trout
C:Species: Oncorhynchus mykiss (rainbow trout)
C>Date: 13-Jan-1995 #sequence_revision 13-Jan-1995 #text_change 16-Jul-1999
C:Accession: S34653
R:Hall, L.
Submitted to the EMBL Data Library, July 1993
A:Reference number: S34653
A:Accession: S34653
A>Status: preliminary
A:Molecule type: DNA
A:Residues: 1-132 <HAL>
A:Cross-references: EMBL:X73837; NID:g395051; PIDN:CAA52059.1; PID:g395052
C:Superfamily: melanin-concentrating hormone

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Query Match 13: Score 87; DB 2; Length 132;
Best Local Similarity 76.5%; Pred. No. 7.5e-07;
Matches 13; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

OY 3 DMLRCMGRVTRPCMOV 19
|:|||||:|||||:|
DB 116 DTMRCMGRVTRPCMEV 132

RESULT 8
S34654
melanin-concentrating hormone 2 - rainbow trout
C:Species: Oncorhynchus mykiss (rainbow trout)
C>Date: 13-Jan-1995 #sequence_revision 13-Jan-1995 #text_change 16-Jul-1999
C:Accession: S34654
R:Hall, L.
Submitted to the EMBL Data Library, July 1993
A:Reference number: S34653
A:Accession: S34654
A>Status: preliminary
A:Molecule type: DNA
A:Residues: 1-132 <HAL>
C:Cross-references: EMBL:X73838; NID:g395053; PIDN:CA452060.1; PID:g395054
C:Superfamily: melanin-concentrating hormone

Query Match 13: Score 87; DB 2; Length 132;
Best Local Similarity 76.5%; Pred. No. 7.5e-07;
Matches 13; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

OY 3 DMLRCMGRVTRPCMOV 19
|:|||||:|||||:|
DB 116 DTMRCMGRVTRPCMEV 132

RESULT 9
A32910
melanin-concentrating hormone 1 precursor - chinook salmon
C:Species: Oncorhynchus tshawytscha (chinook salmon)
C>Date: 08-Dec-1989 #sequence_revision 08-Dec-1989 #text_change 16-Jul-1999
C:Accession: A32910
R:Mintz, C.D.; Olu, H.; Akil, H.; Watson, S.J.; Dixon, J.E.
Proc. Natl. Acad. Sci. U.S.A. 86, 4292-4296, 1989
A:Title: Two precursors of melanin-concentrating hormone: DNA sequence analysis and 1
A:Reference number: A32910; MUID:89264605; PMID:2471200
A:Accession: A32910
A>Status: preliminary
A:Molecule type: mRNA
A:Residues: 1-132 <MIN>
C:Cross-references: GB:M25754; GB:J04561; NID:g213460; PIDN:AAA49422.1; PID:g213461
C:Superfamily: melanin-concentrating hormone

Query Match 13: Score 87; DB 2; Length 132;
Best Local Similarity 76.5%; Pred. No. 7.5e-07;
Matches 13; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

OY 3 DMLRCMGRVTRPCMOV 19
|:|||||:|||||:|
DB 116 DTMRCMGRVTRPCMEV 132

RESULT 10
G70968
probable methyltransferase - Mycobacterium tuberculosis (strain H37RV)
C:Species: Mycobacterium tuberculosis
C>Date: 17-Jul-1998 #sequence_revision 17-Jul-1998 #text_change 22-Oct-1999
C:Accession: G70968
R:Colie, S.T.; Brosch, R.; Parkhill, J.; Garnier, T.; Churcher, C.; Harris, D.; Gordon,
K.; Connor, R.; Davies, R.; Devlin, K.; Felwell, T.; Gentles, S.; Hamlin, N.; Holroyd,
K.; Klandermans, M.A.; Rogers, J.; Rutter, S.; Seeger, K.; Skelton, S.; Squares, S.
Nature 393, 537-544, 1998
A:Authors: Squares, R.; Sulston, J.E.; Taylor, K.; Whitehead, S.; Barrell, B.G.
A>Title: Deciphering the biology of Mycobacterium tuberculosis from the complete geno

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A:Reference number: A70500; MUID:98295987; PMID:9634230
 A:Accession: G70968
 A:Status: preliminary; nucleic acid sequence not shown; translation not shown
 A:Molecule type: DNA
 A:Residues: 1-250 <COL>
 A:Cross-references: GB:280225; GB:AL133456; NID:93242265; PIDN:CA802328.1; PID:e266416;
 A:Experimental source: strain H37Rv
 C:Genetics:
 A:Gene: RV2675c

Query Match 42.5%; Score 48; DB 2; Length 250;
 Best Local Similarity 34.5%; Pred. No. 3;
 Matches 10; Conservative 4; Mismatches 3; Indels 12; Gaps 1;
 Oy 3 DMLRCMLGRVYRRC 19
 Db 216 DQVRCYLERFAIKPWLGVGRVHAFREY 244

RESULT 11
 H84442
 hypothetical protein At2g02980 [imported] - Arabidopsis thaliana
 C:Species: Arabidopsis thaliana (mouse ear cress)
 C:Date: 02-Feb-2001 #sequence_revision 02-Feb-2001 #text_change 02-Mar-2001
 C:Accession: H84442
 R:Lin, X.; Kaul, S.; Rounsley, S.D.; Shee, T.P.; Benito, M.I.; Town, C.D.; Fujii, C.Y.;
 M.; Koo, H.; Moffat, K.S.; Cronin, L.A.; Shen, M.; VanAken, S.E.; Umayam, L.; Tallon, L.;
 Euse, D.; Nleman, W.C.; White, O.; Eisen, J.A.; Salzberg, S.L.; Fraser, C.M.; Venter, J.
 Nature 402, 761-768, 1999
 A>Title: Sequence and analysis of chromosome 2 of the plant Arabidopsis thaliana.
 A:Reference number: A84420; MUID:20083487; PMID:10617197
 A:Accession: H84442
 A:Status: preliminary
 A:Molecule type: DNA
 A:Residues: 1-603 <STO>
 A:Cross-references: GB:AE002093; NID:93461822; PIDN:AAC29316.1; GSPDB:GN00139
 C:Genetics:
 A:Gene: At2g02980
 A:Map position: 2
 C:Superfamily: Arabidopsis thaliana hypothetical protein At2g41080

Query Match 40.7%; Score 46; DB 2; Length 603;
 Best Local Similarity 43.8%; Pred. No. 15;
 Matches 7; Conservative 2; Mismatches 7; Indels 0; Gaps 0;
 Oy 1 DFDLRCMLGRVYRRC 16
 Db 179 DVDSARCVRDRIVERPC 194

RESULT 12
 D91252
 hypothetical protein Eca4988 [imported] - Escherichia coli (strain O157:H7, substrain R1
 C:Species: Escherichia coli
 C:Date: 18-Jul-2001 #sequence_revision 18-Jul-2001 #text_change 18-Jul-2001
 C:Accession: D91252
 R:Hayashi, T.; Makino, K.; Ohnishi, M.; Kurokawa, K.; Ishii, K.; Yokoyama, K.; Han, C.G.;
 Sengavara, N.; Yasunaga, T.; Kuhara, S.; Shiba, T.; Hattori, M.; Shinagawa, H.
 DNA Res. 8, 11-22, 2001
 A>Title: Complete genome sequence of enterohemorrhagic Escherichia coli O157:H7 and gene
 A:Reference number: A99629; MUID:21156231; PMID:11258796
 A:Accession: D91252
 A:Status: preliminary
 A:Molecule type: DNA
 A:Residues: 1-186 <NAV>
 A:Cross-references: GB:BA000007; PIDN:BA838411.1; PID:q13364464; GSPDB:GN00154
 A:Experimental source: strain O157:H7, substrain R1MD 0509952
 C:Genetics:
 A:Gene: Eca4988

Query Match 39.4%; Score 44.5; DB 2; Length 186;
 Best Local Similarity 57.1%; Pred. No. 8.5;
 Matches 8; Conservative 2; Mismatches 3; Indels 1; Gaps 1;

Oy 5 LRCMLGRVYRRC 18
 Db 159 LECILNR-YKPAW 171

RESULT 13
 I47202
 Ig heavy chain variable VDJ region - pig (fragment)
 C:Species: Sus scrofa domestica (domestic pig)
 C:Date: 21-Feb-1997 #sequence_revision 21-Feb-1997 #text_change 21-Jan-2000
 C:Accession: I47202
 R:Sun, J.; Kascovics, I.; Brown, W.R.; Butler, J.E.
 J. Immunol. 153, 5618-5627, 1994
 A>Title: Expressed swine VH genes belong to a small VH gene family homologous to huma
 A:Reference number: I47177; MUID:95081609; PMID:7989761
 A:Accession: I47202
 A:Status: preliminary; translated from GB/EMBL/DBJ
 A:Molecule type: mRNA
 A:Residues: 1-143 <SUN>
 A:Cross-references: EMBL:U15518; NID:9571408; PIDN:AAA67027.1; PID:9571409
 C:Superfamily: Immunoglobulin V region; Immunoglobulin homology
 F:34-117/Domains: Immunoglobulin homology <IMM>

Query Match 38.9%; Score 44; DB 2; Length 143;
 Best Local Similarity 46.7%; Pred. No. 8;
 Matches 7; Conservative 1; Mismatches 7; Indels 0; Gaps 0;
 Oy 3 DMLRCMLGRVYRRC 17.
 Db 109 DTAAYCAIRYRCW 123

RESULT 14
 S03416
 probable transposase - Shigella sonnei insertion sequence IS640
 C:Species: Shigella sonnei
 C:Date: 30-Sep-1989 #sequence_revision 30-Sep-1989 #text_change 26-Aug-1999
 C:Accession: S03416
 R:Matsutani, S.; Ohtsubo, H.; Maeda, Y.; Ohtsubo, E.
 J. Mol. Biol. 196, 445-455, 1987
 A>Title: Isolation and characterization of IS elements repeated in the bacterial chro
 A:Reference number: S03411; MUID:88062685; PMID:2824781
 A:Accession: S03416
 A:Molecule type: DNA
 A:Residues: 1-315 <MAT>
 A:Cross-references: EMBL:X05956; NID:947543; PIDN:CAA29390.1; PID:947544
 C:Genetics:
 A:Mobile element: insertion sequence IS640
 C:Superfamily: ISa protein
 C:Keywords: DNA binding

Query Match 38.5%; Score 43.5; DB 2; Length 315;
 Best Local Similarity 42.1%; Pred. No. 20;
 Matches 8; Conservative 5; Mismatches 3; Indels 3; Gaps 1;
 Oy 2 FDLRCMLGRVYRRC 17
 Db 297 YQLRKPCVIGQYRCW 315

RESULT 15
 G02277
 creatine transporter - human (fragment)
 N:Alternate names: solute carrier family 6, member 10
 C:Species: Homo sapiens (man)
 C:Date: 21-Dec-1996 #sequence_revision 06-Jun-1997 #text_change 20-Aug-1999
 C:Accession: G02277
 R:Yier, G.S.; Fumagalli, V.L.; Proujansky, R.
 submitted to the EMBL Data Library, November 1995
 A:Reference number: H00966
 A:Accession: G02277
 A:Status: preliminary; translated from GB/EMBL/DDAJ

A:Molecule type: DNA
 A:Residues: 1-426 <1YE>
 A:Cross-references: EMBL:U41163; NID:g1209100; PIDN:AAA96028.1; PID:g1209101
 C:Genetics:
 A:Gene: GDB:SLC6A10; CT-2
 A:Cross-references: GDB:1220162; OMIM:601294
 A:Map position: 16p11.2-16p11.2
 A:Introns: 45/3; 80/3; 122/1; 159/3; 205/3; 240/1; 273/3; 330/3
 C:Superfamily: gamma-aminoacyl tRNA synthetase
 Query Match 38.5%; Score 43.5; DB 2; Length 426;
 Best Local Similarity 56.2%; Pred. No. 27;
 Matches 9; Conservative 2; Mismatches 2; Indels 3; Gaps 2;
 OY 3 DMLRCMLGRVYRRC-W 17
 | : || : | ||| |
 DB 246 DDICMIG--YRRCPW 259

Search completed: June 12, 2003, 15:32:25
 Job time : 23 secs